

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A measurement value output device comprising signal converting means for receiving a measurement value obtained by a meter or sensor and converting it into a time width corresponding to the measurement value and measurement value output means for outputting an ON/OFF signal which is kept ON or OFF for a time corresponding to the above time width at predetermined time intervals.
2. (Original) The measurement value output device according to claim 1, wherein input signal switching means which is connected to a plurality of meters, or sensors, selects one from outputs from the meters or sensors and outputs it to the signal converting means is installed before the signal converting means.
3. (Original) A measurement value output device comprising a plurality of measurement value converters, each having signal converting means for receiving a measurement value obtained by a meter or sensor and converting it into a time width corresponding to the measurement value and measurement value output means for outputting an ON/OFF signal which is kept ON or OFF for a time corresponding to the time width at predetermined time intervals, in order to output a plurality of the converted ON/OFF signals at predetermined time intervals sequentially.
4. (Currently Amended) The measurement value output device according to claim 2-~~or~~ 3, wherein a pulse signal indicative of the measurement value is output before the ON/OFF signal.

5. (Currently Amended) A measurement value monitoring device comprising the measurement value output device of ~~any one of claims 1 to 4~~ claim 1 and monitoring means for monitoring the length of the ON time or OFF time of an ON/OFF signal output from the output device.

6. (Original) A current value output device comprising current measuring means for measuring a current running through a conductor and ON/OFF signal output means for outputting an ON/OFF signal which is kept ON or OFF for a time corresponding to the measured current at predetermined time intervals.

7. (Original) A current value output device having a plurality of current value converters, each comprising current measuring means for measuring a current running through a conductor and ON/OFF signal output means for outputting an ON/OFF signal which is kept ON or OFF for a time corresponding to the measured current at predetermined time intervals, in order to output a plurality of the converted ON/OFF signals at predetermined time intervals sequentially.

8. (Original) The current value output device according to claim 7, wherein a pulse signal indicative of an object to be detected is output before the ON/OFF signal.

9. (Currently Amended) A current monitoring device comprising the current value output device of ~~any one of claims 6 to 8~~ claim 6 and monitoring means for monitoring the length of the ON time or OFF time of an ON/OFF signal output from this current value output device.

10. (Original) The current monitoring device according to claim 9 comprising means of outputting a pulse signal when the ON time or OFF time of the ON/OFF signal is longer than a predetermined time, means of integrating the number of the output pulses, and alarm means for issuing a warning when the integrated number of pulses exceeds a predetermined value.